



# Indiana Department of Education

Dr. Katie Jenner, Secretary of Education

## Grade 1 Correlation Guide 2016 Science Indiana Academic Standards to 2022 Performance Expectations\*

Physical Science	
2016 Indiana Academic Standard	2022 Performance Expectation
<b>1.PS.3</b> Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	<b>1-PS4-1.</b> Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.
<b>1.PS.4</b> Make observations to collect evidence and explain that objects can be seen only when illuminated.	<b>1-PS4-2.</b> Make observations to construct an evidence-based account that objects in darkness can be seen only when illuminated.
	<b>1-PS4-3.</b> Plan and conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light.
	<b>1-PS4-4.</b> Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.

Life Science	
2016 Indiana Academic Standard	2022 Performance Expectation
<b>1.LS.2</b> Develop a model mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. Explore how those external parts could solve a human problem.	<b>1-LS1-1.</b> Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.
<b>2.LS.1</b> Determine patterns and behavior (adaptations) of parents and offspring which help offspring to survive.	<b>1-LS1-2.</b> Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.
	<b>1-LS1-3.</b> Develop representations to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death.



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	<b>1-LS3-1.</b> Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents.
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Earth and Space Science	
2016 Indiana Academic Standard	2022 Performance Expectation
<b>1.ESS.1</b> Use observations of the sun, moon, and stars to describe patterns that can be predicted.	<b>1-ESS1-1.</b> Use observations of the sun, moon and stars to describe patterns that can be predicted.
	<b>1-ESS1-2.</b> Make observations at different times of year to relate the amount of daylight to the time of year.

Engineering Design	
2016 Indiana Academic Standard	2022 Performance Expectation
<b>K-2.E.1</b> Pose questions, make observations, and obtain information about a situation people want to change. Use this data to define a simple problem that can be solved through the construction of a new or improved object or tool.	<b>K-2-ETS1-1.</b> Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.
<b>K-2.E.2</b> Develop a simple sketch, drawing, or physical model to illustrate and investigate how the shape of an object helps it function as needed to solve an identified problem.	<b>K-2-ETS1-2.</b> Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.
<b>K-2.E.3</b> Analyze data from the investigation of two objects constructed to solve the same problem to compare the strengths and weaknesses of how each performs.	<b>K-2-ETS1-3.</b> Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.

\*Performance expectations are three dimensional. All three dimensions (Disciplinary Core Ideas, Science and Engineering Practices, and Crosscutting Concepts) must be included as part of effective instruction.

For more information, see the [Indiana Department of Education's Indiana Academic Standards webpage](#) or contact the [Office of Teaching and Learning](#).